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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,542	11/13/2001	Chan Yong Lee	8750-19	3270
75	90 05/02/2003			
Alan T. McCo			C. EXAMINER LE, THONG QUOC	
MARGER JOH 1030 S.W. Mor	NSON & McCOLLOI rison Street	M, P.C.		
Portland, OR	77205		ART UNIT	PAPER NUMBER
			2818	
	DATE MAILED: 05/02/2003		1	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
~ '	10/002,542	LEE ET AL.				
Office Action Summary	Examin r	Art Unit				
	Thong Q. Le	2818				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondenc ac	Idress			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
1) Responsive to communication(s) filed on						
, — · · · · · · · · · · · · · · · · · ·	· is action is non-final.					
,		neecution as to th	na marite ie			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims 4) ◯ Claim(s) 1-15 and 34-56 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5)⊠ Claim(s) <u>15 and 34-56</u> is/are allowed.	THE HOLL GOLGE CHARLES					
6)⊠ Claim(s) <u>1-3 and 10</u> is/are rejected.						
7)⊠ Claim(s) <u>4-9</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing R view (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal I	(PTO-413) Paper No Patent Application (PT				



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DETAILED ACTION

1. Amendment filed on March 12, 2003 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-14, 34-46 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3, 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Roy (U.S. Patent No. 4,926,384).

Regarding claim 1, a circuit comprising:

a read charge control circuit (Column 7, lines 10-20) activated only during read operations by a read signal (CRD, Column 7, lines 14-15) and an address (Column 7, lines 15-20);

a write charge control circuit (Column 7, lines 60-67) activated by a write charge signal (Column 7, lines 66-67, Column 8, lines 1-20) and the same or different address, the read charge control circuit and the write charge control circuit both coupled to a first

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and a second data IO line, wherein the second data IO line is complementary to the first data IO line (Column 2, lines 57-67, Column 8, lines 13-20).

Regarding claim 2, Roy discloses the read charge control circuit is a sense amplifier (Column 7, lines 30-34).

Regarding claims 3, 10 Roy discloses the write charge control circuit transfers charge between at least one of the first and second data IO lines and a bit line (Column 8, lines 1-20). More specifically, Roy discloses a data output sense amplifier coupled between a data output buffer (Figure 14) as claim 10 discloses.

Allowable Subject Matter

5. Claims 4-9, 11-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 4-9, 11-14 include allowable subject matter since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Roy (U.S. Patent No. 4,926,384), and others, does not teach the claimed invention having a write charge control circuit includes only two write charge controlled gates as claims 4-9 disclose, and a load transistors shared between the read charge control circuit an the data output sense amplifier ad claims 11-14 disclose.

6. Claim 15, 34-56 are allowed.

Claims 15, 34-56 include allowable subject matter since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest

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the claimed limitations. Roy (U.S. Patent No. 4,926,384), and others, does not teach the claimed invention having a a load transistors shared between the read charge control circuit an the data output sense amplifier ad claims 15, 34-56 disclose.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 703-306-9123. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on 703-308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3329.

> Thong Q. Le Examiner

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April 28, 2003